AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning on page 1, line 22, and ending on page 1, line 32 with the following paragraph:

The 1000 foot section of the line is assumed to have the highest temperature and to be exposed to the maximum solar radiation. The heat input portion in the equation is mainly due to heat dissipated in the conductor resistance and the solar heat gain. The heat lost portion is due primarily to convection and radiation. In general, the equations for establishing such a thermal model are well known, and the procedures for obtaining the temperatures of overhead conductors using a thermal model are set forth in IEEE Standard 738-1993, titled "IEEE Standard for Calculating the Current-Temperature Relationship of Bare Overhead Conductors".

Please replace equation 2 on page 3, line 22, with the following equation:

$$P = (I^2 \bullet (rac) + (TC - 25) \bullet rdelt) + Q_{sun}$$